

ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH FOR
THE RURAL DISTRICT OF HAWARDEN
FOR THE YEAR 1944.

Madam and Gentlemen,

I have pleasure in presenting to you my twenty-first Annual Report upon the health of the district.

In view of the increasing pressure of work in the Public Health Department and the need for strict economy in the use of paper, I have been advised by the Welsh Board of Health that an interim report only should be made for the year under review.

Statistics and Social Conditions of the Area.

Area (in acres).	32,558.
Number of inhabited houses, end of 1944 according to Rate Book.	8,748.
Number of houses (occupied) owned by Local Authority.	1,392.
Rateable Value.	165,385.
Sum represented by Penny Rate.	672.

General Provision of Health Services in the Area.

Drainage and Sewerage.

No important changes during the year.

Water Supply.

The following Companies have powers to supply water in the Council's area:

Wrexham Water Co. - Parish of Llanfynydd, Hope, including Cymmau.
Brymbo Water Co. - Parishes of Treuddyn and Llanfynydd.
Hawarden Water Co. - Parishes of Hawarden, West Saltney, Sealand.
Chester Water Co. - Parish of East Saltney.

In addition to the aforementioned water supply the Council are responsible for a small undertaking for supplying the village of Kinnerton.

During the year 39 samples of water were taken from piped water supplies, of these 32 were found to be satisfactory in quality and 7 below the required standard. 25 samples were taken from wells, pumps etc. 11 of these proved to be satisfactory and 14 below the required standard. Where the results of the samples were found to be below the required standard all possible steps were taken to improve the quality of the supply.

In the parts of the area where there is a piped water supply only a few minor complaints were received regarding the insufficiency of the supply.

No lead, copper or zinc content have been found in any of the samples taken.

Eighty five per cent of the occupied houses in the area are provided with a piped water supply direct from the Water Company's mains, in addition to this a small percentage of properties are dependant on standpipes connected to the water mains. Some of the outlying parts of the area are still without a piped water supply but it is hoped that in the near future the existing water mains will be extended to serve the whole area.

The following are reports of 2 samples taken for a chemical analysis which will give a fair idea of the type of water supplied within the area.

Chemical Examination of sample of water as supplied
by the Chester Water Company.

Sample of Water taken on 10.6.44.

In parts per 100,000 of Water	Main.
Total solid matter in solution	12.0
Loss on ignition	4.0
Mineral matter	8.0
Chlorine in Chlorides	1.6
Nitrates as NO ₃	0.4
Sulphates as SO ₄	2.4
Carbonates as CO ₃	2.0
Silica	0.3
Iron as Fe	Nil
Calcium Salts as Ca.	2.4
Magnesium Salts as Mg.	0.2
Total Mineral matter	9.3
Ammoniacal Nitrogen	0.003
Albuminoid Nitrogen	0.004
Oxygen absorbed from Permanganate in 4 hours at 80°F	0.024
Hydrogen Ion concentration pH	7.0
Temporary Hardness in degrees Clark	2.2°
Permanent Hardness (Palmitate)	2.2°
Sulphites	Nil.

Chemical Examination of Sample of Water as supplied
by the Brymbo Water Company.

Sample of water taken on 6.7.44.

Colour of water viewed in a 2 ft.
glass tube equivalent to m.m.Hazen solution.

Total solids (dried at 120°C)	6.0 parts per 100,000.
Combined Chlorine	1.0 " " "
Free Chlorine	Nil " " "
Nitric Nitrogen(Nitrates)	Nil " " "
Nitrous Nitrogen(Nitrates)	Nil " " "
Ammoniacal Nitrogen(Ammonia)	Nil " " "
Albumenoid Nitrogen(Ammonia)	0.005 " " "
Oxygen absorbed in 4 hrs. at 270°C.	0.026 " " "
Lead, copper, zinc	Nil. " " "
Temporary hardness (equivalent to CaCO ₂)	9.2 " " "
Permanent hardness	0.4 " " "
Total hardness	0.7 " " "

Remarks:-

The above chemical analysis is satisfactory.
The water is a very "soft" one.

During the year many of the outlying farms have been able to obtain a piped water supply through the activities of the War Agricultural Committee.

Housing.

During the year 4 houses under the scheme for Agricultural Workers were completed by the Local Authority.

Inspection and supervision of Foods.

All premises concerned in the production of Food have been regularly visited, and the following is the amount of Food found to be unfit for human consumption:-

Tinned Meat	181	tins
Tinned Fish	1373	"
Tinned Milk	419	"
Tinned Beans	173	"
Tinned Fruit	63	"
Peas	2 cwts. 14	lbs.
Pickles	101	"
Oats	435	"
Onions	81	"
Oranges	6 cwts. 96	"
Sugar	128	"
Cheese	7	"
Bacon	2 cwts. 98	"
Lemons	133	"
Fresh Fish	18 cwts. 98	"
Slab Cake	6 cwts.	"
Sausage	38	"
Rice	222	"
Flour	275	"
Home Killed Meat	40	"
Tomatoes	228	"

Infectious Diseases.

The number of cases during the year were:-

Age Groups.	0.	1.	3.	5.	10.	15.	25.	Non Civilian.	Total.
Small Pox	-	-	-	-	-	-	-	-	0.
S. Fever	4.	7.	11.	30.	19.	4.	-	4.	79.
Diphtheria	1.	1.	3.	8.	3.	5.	2.	-	23.
Enteric Fever including para. T.	-	-	-	-	-	-	-	-	0.
Puerperal Pyrexia	-	-	-	-	-	1.	1.	-	2.
Pneumonia	1.	-	-	2.	-	7.	6.	-	16.
Erysipelas	-	-	-	-	-	-	3.	-	3.
Ophthalmia Neon.	1.	-	-	-	-	-	-	-	1.
Measles	1.	10.	15.	19.	2.	10.	5.	-	62.
Whooping Cough	7.	13.	13.	19.	-	-	-	-	52.
Cerebro Spinal	-	-	-	-	-	1.	-	-	1.
Acute Poliomyelitis	-	-	-	1.	-	-	-	-	1.

Tuberculosis - Tabulated new cases for 1944:-

Age Periods.	Resp.		Non Pulm.		TOTAL.
	M.	F.	M.	F.	
1.	-	-	2.	2.	4.
5.	-	2.	-	1.	3.
10.	5.	11.	3.	1.	20.
25.	5.	5.	1.	2.	13.
35.	3.	5.	-	-	8.
45.	4.	2.	-	-	6.
55.	5.	-	-	-	5.
65 & upward.	22.	25.	6.	6.	59.

Diphtheria Immunisation.

During the year under review, the scheme for immunisation of children against Diphtheria was continued, the number of children to receive two inoculations was 388.

I am, Madam and Gentlemen,
Your obedient Servant,

J. LLEWELLYN JONES,
Medical Officer of Health.

